



**1 Flush To Clear Debris**  
A. Pull up cap while water is on (for debris inside the nozzle).  
B. Hold spray down for a minute while water is on (for debris around stem and cap).



**2 Adjust Spray Distance**  
Twist the upper dial clockwise to increase distance, counter-clockwise to decrease it.



**3 Adjust Spray Pattern**  
Push down on nozzle cap and turn while water is on.

Problem	Potential Issues	Potential Solution
Nozzle does not rotate or rotation is intermittent	Distance is set too low	<b>2</b> Turn the dial on the nozzle while water is on
	Nozzle is clogged with debris	<b>1</b> Pull up firmly on nozzle to clear debris while water is on
	Water pressure is too low	See distance charts below
	Insufficient water flow	Reduce number of sprays per zone (valve)
No water sprays out	Pattern adjustment is set to zero	<b>3</b> Push down on the nozzle and turn while water is on
	Nozzle is clogged with debris	<b>1</b> Pull up firmly on nozzle to clear debris while water is on
Spray distance is too short	Distance is set too low	<b>2</b> Turn the dial on the nozzle while water is on
	Water pressure is too low	See distance charts below
	Insufficient water flow	Reduce number of sprays per zone (valve)
Does not cover full pattern	Pattern adjustment is set too low	<b>3</b> Push down on the nozzle and turn while water is on
	Nozzle is clogged with debris	<b>1</b> Pull up firmly on nozzle to clear debris while water is on
	Filter is clogged with debris	Remove nozzle and rinse out filter
	Choose full-circle nozzle instead of adjustable	Adjustable = 45° to 270°. Full Circle = 360°
	No head to head coverage	Ensure nozzles have head to head coverage
Stem gets stuck in up position	Debris is stuck along stem & cap	Hold spray down for a minute while water is on
		Untwist the cap and rinse off debris
Stem does not pop up all the way	Debris is stuck along stem & cap	Hold spray down for a minute while water is on
		Untwist the cap and rinse off debris
	Water pressure is too low	See distance charts below
	Insufficient water flow	Reduce number of sprays per zone
Brown spots - grass not getting water	Increase zone run time.	Rotary nozzles apply water much slower than a traditional spray.
	Nozzle is clogged with debris	<b>1</b> Pull up firmly on nozzle to clear debris while water is on
	Filter is clogged with debris	Remove nozzle and rinse out filter
	No head to head coverage	Ensure nozzles have head to head coverage
Spray distance is too long	Distance is set too high	<b>2</b> Turn the dial on the nozzle while water is on
	Water pressure is too high	See distance charts below
Rotation speed is not equal among nozzles	There is some natural variation between nozzles	Leave alone; water flow is equal though rotation speed may vary

### 8SA / 14RN Series

Pressure (PSI)	Distance (Feet)
30	13
35	13
40	14
<b>45</b>	<b>14</b>
50	15
55	15



### 12SA / 18RN Series

Pressure (PSI)	Distance (Feet)
30	16
35	16
40	17
<b>45</b>	<b>17</b>
50	18
55	18



### 22SA / 24RN Series

Pressure (PSI)	Distance (Feet)
30	19
35	20
40	22
<b>45</b>	<b>23</b>
50	24
55	24

